THE PLATINUM EXAMINATIONS BOARD

SPECIAL MOCK -2025

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **10** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S NO.**
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

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SECTION A: 40 MARKS

Questions **1** to **40** carry **one** mark each.

1. Why is a duck-billed platypus said to be a mammal?

……..

2. State one way in which lightning is important to a crop farmer.

……..

3. Give one way of conserving energy at home.

……..

4. How do earthworms help in aeration of soil?

……..

5. In which way can diphtheria be prevented among children?

……..

The diagram below shows a common practice. Study and use it to answer questions that follow.

6. State the effect of the above practice to the pregnant woman.

……..

7. Name the addictive drug found in tobacco.

……..

8. How best can a school going girl safeguard herself from contracting HIV/AIDS?

……..

9. Give one way in which decomposition is important in our daily life.

……..

10. Why are we always advised to sleep under mosquito nets?

……..

11. Mention one temporary method of making magnets at home.

……..

12. Why do people often sweat on hot days?

……..

13. Given; maize plant, hen and dog. Explain what will happen to the dog if the farmer sells the hens?

……..

14. In which way is sound similar to light apart from being forms of energy.

……..

15. Name the deficiency disease that results from starvation.

……..

16. Why are ventilators usually placed above windows and doors?

……..

……..

17. Name the type of compound leaf drawn in the diagram below.

……..

18. Name the force that enables a mosquito to stand on the surface of water

……..

19. Identify the diarrhoeal disease that causes wounds in the stomach.

……..

20.What is the main cause of fainting?

……..

21.Why are electric wires loosely fixed on electric poles during installation.

……..

22.In which way does crop rotation control crop pests in a garden.

……..

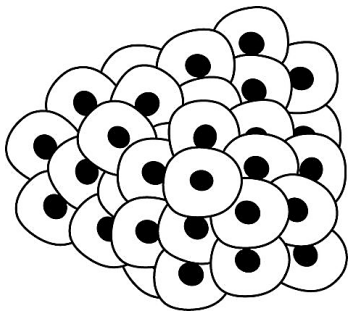
23. State the importance of septum in the heart during circulation of blood."

……..

24. Point out one way of acquiring natural immunity.

……..

The diagram below shows eggs of a vertebrate, use it to answer questions 25 and 26.



25. To which group of vertebrates does the animal which lays such eggs belong?

……..

26. Name one other animal that belongs to the same group as the one which lays such eggs.

……..

27. Which part of a mammalian ear transmits impulses to the brain for interpretation?

……..

28. What general name is given to the head of a tapeworm and its parts?

……

……

29. Name the property of magnets that helps pilots to locate places.

……

30. Mention one disorder of the female reproductive system.

……

31. How are hookworms a danger to human health?

……

32. Why do plants with weak stems climb others?

……

33. Give a reason why spikes are put under soles of sports shoes.

……

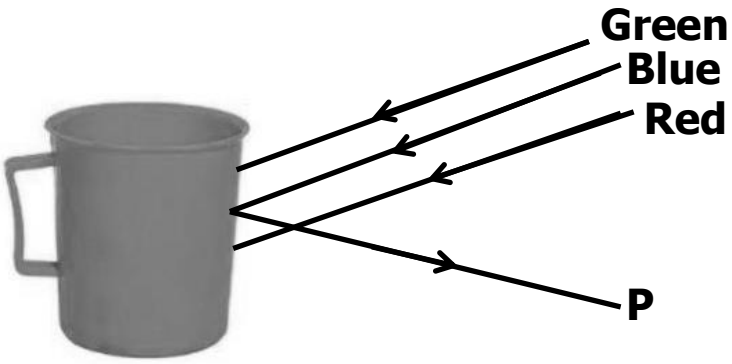
34. Apart from putting soft boards, how else can echoes be reduced in theatres?

……

35.Mention one application of pulleys done at school.

……

The diagram below shows light rays of different colours striking a plastic cup. Study and use it to answer questions 36 and 37.



36. Name the ray marked **P**.

……

37. What is the colour of the cup?

……

38. In which one way do plants purify air?

……..

39. Name one scale in which temperature is measured.

……..

40. What term is used to mean plants that shed their leaves in dry season?

……..

SECTION B

41 a) Name the disease which results from deficiency of iodine in the human body.

……..

b) State one sign of Iodine deficiency disease in humans

……..

c) Give **two** examples of food stuffs rich in iodine.

(i)…….

(ii)……

42 a) How do poultry reproduce?

……..

b) Give two conditions necessary for an egg of a hen to develop into a chick.

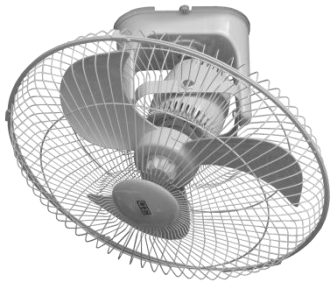
(i)……

(ii)……

c) State one reason why most farmers use natural method of incubation.

……

43. The diagram below shows devices related to electricity. Study and use them to answer questions that follow.

W	X	Y
		

a) State the reason why the above devices are regarded as electric.

……..

b) Name the devices marked **X** and **Y**

X……

Y……

c) State the energy change which occur in device marked W when in use.

……..

44 a) Mention the mosquito borne disease which is prevented by immunization.

……..

(b) Give any **two** ways how malaria can be controlled biologically.

(i)…….

(ii)……

(c) Why is mosquito life cycle considered to be complete life cycle?

……..

45 Complete the table below correctly.

Alloy	**Common metals**	**Uses**
Dental Amalgam	copper and mercury	.....
.....	nickel and iron	for making magnet
Solder	.....	For joining metals
.....	copper and tin	For decorating medals

46 a) What is pollination?

.....

(b) Name any **two** non living agents of pollination.

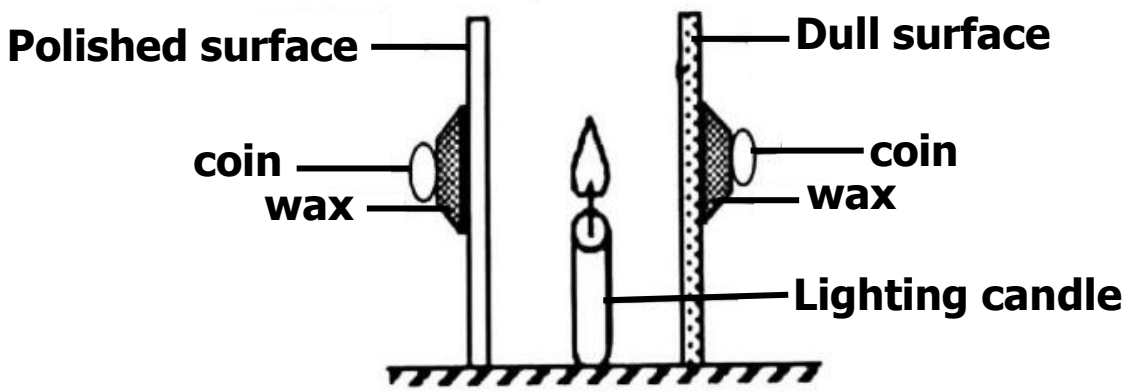
(i).....

(ii).....

(c) How are pawpaw adapted to cross pollination.

.....

47.The experiment below was carried out by P.5 pupils during science lesson on heat. A dull and polished surfaces were placed opposite to each other with a coin attached to them using wax. A lighting candle was placed in the middle of the two surfaces as shown below.



(a) What does the experiment prove about heat?

……..

(b) On which surface will the wax melt first after sometimes?

……..

(c) Give the reason to support your answer in 47.(b) above.

……..

(d) Mention any **one** example of polished surfaces that can be used to carry out the above experiment.

……..

48. a) Write down **one** type of stem found in flowering plants.

……..

(b) Name the system of flowering plant where root hairs are found.

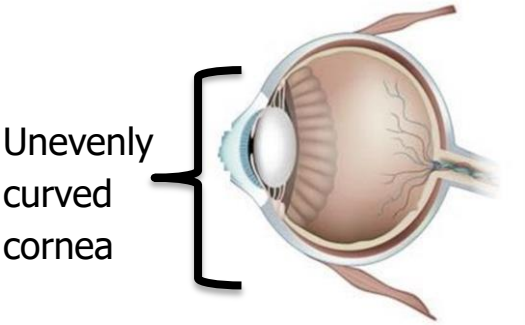
……..

(c) Give **two** functions of stems to flowering plants.

(i)…….

(ii)……

49.The diagram below shows one of the common eye defects. Study and use it to answer the questions that follow.



a) Name the eye defect illustrated in the diagram above.

……..

b) Give the possible way of correcting the eye defect illustrated above.

……..

c) Mention any **two** other examples of eye defects apart from the one illustrated in the diagram above.

(i)……

(ii)……

50. The table below shows materials used in the promotion of sanitation and their uses. Match them correctly to their respective uses.

Material	**Use in promoting sanitation**
Floor brush	for drying water on the floor after mopping.
Dustpan	for trimming the compound.
Squeegee	for scrubbing dirt on the floor.
Hoe	for collecting rubbish in the compound.

(i) Squeegee……

(ii) Dustpan……

(iii) Floor brush……

(iv) Hoe……

51a) Give the main role of the kidneys in the human body.

……

b) Mention any **one** process which occurs in human kidneys during urine formation.

……

c) How are the following parts important in the human kidneys?

(i) Pelvis:

……

(ii) Cortex:

……

52. You are provided with the following materials: Water, banana leaf, two containers and flat metal sheet. In four sentences, describe the steps you will follow when making local salt at home.

……

……

……

……

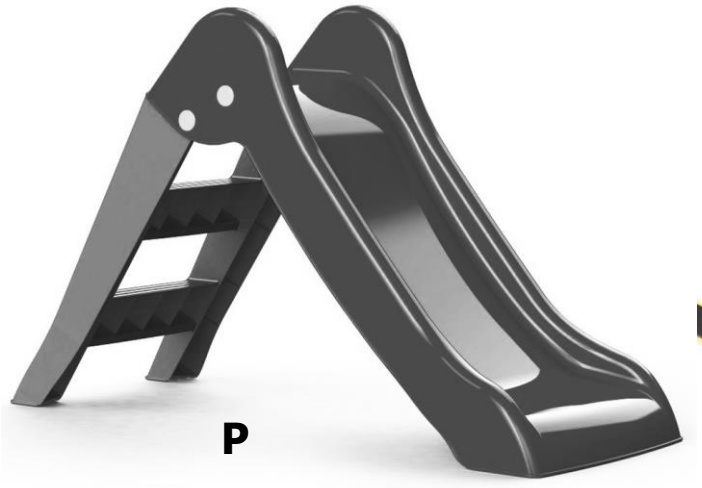
……

……

……

……

53. The diagram below shows simple machines. Study and use them to answer the questions that follow.



P

Q

(a) Name the group of simple machines to which machines marked **P** and **Q** belong.

(i) **P** ……

(ii) **Q** ……

(b) In which way do nursery school children benefit from machine **P**?

……

(c) How can friction be reduced in machine marked **Q**?

……

54. a) Mention **one** example of climbing birds?

……..

b) Identify **one** way in which sunbirds benefit crop farmers.

……..

c) Give **two** dangers of birds in the environment.

(i)…….

(ii)……

55. a) What is Agro-forestry?

……..

……..

b) Mention **two** characteristics of exotic trees

(i)…….

(ii)……

c) What name is given to the practice of replacing dead tree seedlings in the garden?

……..

GOOD LUCK